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*DB=PGPB; PLUR=YES; OP=ADJ*L11 20030136284.pn.L10 L4 and 0.1 near5 nitrogen*DB=USPT; PLUR=YES; OP=ADJ*L9 L4 and 0.1 near5 nitrogen*DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ*L8 L4 and 0.1 same nitrogenL7 L4 and 0.1 near5 nitrogenL6 L4 and 0.1 near3 nitrogenL5 L4 and .1 near3 nitrogenL4 agfa\$.as.*DB=USPT; PLUR=YES; OP=ADJ*L3 L2 and nitrogenL2 L1 and agfa\$.as.L1 ((101/453 |101/454 |101/455 |101/456 |101/457 |101/458 |101/459
|101/460 |101/461 |101/462 |101/463.1 |101/464 |101/465 |101/466
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☐ 1. Document ID: US 6030765 A

L15: Entry 1 of 2

File: USPT

Feb 29, 2000

DOCUMENT-IDENTIFIER: US 6030765 A

** See image for Certificate of Correction **

TITLE: Thermographic recording material coatable with improved stability

US Patent No. (1):
6030765Assignee Name (1):
Agfa-GevaertBrief Summary Text (37):

Suitable hydrophobic polymers for use in the recording material of the present invention are hydrophobic natural, modified natural or synthetic resins in which the organic reducing agent can be dispersed or dissolved, for example: polyesters; polyurethanes; polycarbonates; after-chlorinated polyvinyl chloride; polyvinyl acetals e.g. polyvinyl butyral; polymers and copolymers of acrylic acid esters, vinyl chloride, vinylidene chloride, vinyl esters, acrylonitrile, acrylamide, methacrylamide, methacrylic acid esters, styrene, dienes e.g. butadiene, isoprene etc., etc.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 2. Document ID: US 5354613 A

L15: Entry 2 of 2

File: USPT

Oct 11, 1994

DOCUMENT-IDENTIFIER: US 5354613 A

TITLE: Antistatic coating on hydrophobic resin or paper support

US Patent No. (1):
5354613Assignee Name (1):
Agfa-Gevaert, N.V.Brief Summary Text (45):

Suitable hydrophobic organic polymers used in dispersed form (latex form) in the coating composition according to the present invention are homopolymers or copolymers made of polymerizable monomers selected from the group consisting of styrene, vinylidene chloride, vinyl chloride, alkyl acrylates, e.g. ethyl acrylate, and alkyl methacrylates, preferably methyl methacrylate. Further are mentioned polyesters and copolyesters, urethane acrylates, acrylamide or polyethers including mixtures thereof, with the proviso that the hydrophobic polymer has a Tg of at least 40.degree. C.

CLAIMS:

8. Sheet or web material according to claim 1, wherein said hydrophobic organic polymer is a homopolymer or copolymer made of polymerizable monomers selected from the group consisting of styrene, vinylidene chloride, vinyl chloride, an alkyl acrylate, and an alkyl methacrylate or wherein said hydrophobic organic polymer is a polyester, a copolyester, an urethane acrylate, acrylamide or a polyether including mixtures thereof.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Draw Desc	Image
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114 and 113

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L19

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<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
side by side			
<i>DB=USPT,PGPB; PLUR=YES; OP=ADJ</i>			
<u>L19</u>	l18 and l17	12	<u>L19</u>
<u>L18</u>	('6080523' '5639586' '6124079' '5445912' '6110644' '6004727' '5816162' '5462833' '6001536' '6096481' '6071369' '6030750')[PN]	12	<u>L18</u>
<u>L17</u>	l3 and (hydrophobic near5 polymer near5 particle) same (\$acrylonitrile)	48	<u>L17</u>
<u>L16</u>	l3 and (hydrophobic near5 polymer near5 particle) same (amide or urethane or polyurethane or \$nitrile or vinylidene or isocytosine or pyrrolidone or piperazine or cyano\$ or amine or urea or imide or imine or triazine or \$amide or onium or \$amine or pyrimidine or ureidopyrimidone or pyridine or imidazole or methylmethacrylate or methacrylamide or maleimide)	16	<u>L16</u>
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ</i>			
<u>L15</u>	l14 and l13	2	<u>L15</u>
<u>L14</u>	('6030765' '5354613')[ABPN1,NRPN,PN,WKU]	4	<u>L14</u>
<u>L13</u>	L8 and hydrophobic near5 polymer same (styrene or pyrrolidone)	52	<u>L13</u>
<u>L12</u>	L8 and hydrophobic near5 polymer same (\$nitrile or amine or imide or imine or onium)	10	<u>L12</u>
<u>L11</u>	L8 and hydrophobic same (croto\$ or cyano\$)	19	<u>L11</u>
<u>L10</u>	L8 and hydrophobic same methacrylonitrile	7	<u>L10</u>
<u>L9</u>	L8 and hydrophobic near5 polymer same methacrylonitrile	2	<u>L9</u>
<u>L8</u>	agfa\$.as.	15975	<u>L8</u>
<i>DB=USPT,PGPB; PLUR=YES; OP=ADJ</i>			
<u>L7</u>	L6 and methacrylonitrile	4	<u>L7</u>
<u>L6</u>	l3 not l5	87	<u>L6</u>
<u>L5</u>	l3 not l4	3597	<u>L5</u>
<u>L4</u>	L3 and hydrophobic near1 thermoplastic near1 polymer near1 particle	87	<u>L4</u>
<u>L3</u>	L2 or l1	3684	<u>L3</u>
<u>L2</u>	((430/302)!.CCLS.)	1859	<u>L2</u>
<u>L1</u>	((101/453 101/454 101/455 101/456 101/457 101/458 101/459 101/460 101/461 101/462 101/463.1 101/464 101/465 101/466 101/467)!.CCLS.)	2420	<u>L1</u>

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 12 of 12 returned.

☐ 1. Document ID: US 6124079 A

L19: Entry 1 of 12

File: USPT

Sep 26, 2000

DOCUMENT-IDENTIFIER: US 6124079 A

TITLE: Method for making a driographic printing plate involving the use of a heat-sensitive imaging element

US Patent No. (1):
6124079Brief Summary Text (53):

Specific examples of hydrophobic polymer particles for use in connection with the present invention are e.g. polyethylene, polyvinyl chloride, polymethyl (meth)acrylate, polyethyl (meth)acrylate, polyvinylidene chloride, polyacrylonitrile, polyvinyl carbazole etc. or copolymers thereof. Most preferably used is polyethylene or polymethyl (meth)acrylate.

Current US Cross Reference Classification (1):
101/467

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 2. Document ID: US 6110644 A

L19: Entry 2 of 12

File: USPT

Aug 29, 2000

DOCUMENT-IDENTIFIER: US 6110644 A

**** See image for Certificate of Correction ****

TITLE: Method for making a lithographic printing plate involving on press development

US Patent No. (1):
6110644Detailed Description Text (14):

Hydrophobic thermoplastic polymer particles capable of coalescing under the influence of heat used in connection with the present invention preferably have a coagulation temperature above 35.degree. C. and more preferably above 50.degree. C. Coagulation results from softening or melting of the thermoplastic polymer particles under the influence of heat. There is no specific upper limit to the coagulation temperature of the thermoplastic hydrophobic polymer particles, however the temperature should be sufficiently below the decomposition of the polymer particles. Preferably the coagulation temperature is at least 10.degree. C. below the temperature at which the decomposition of the polymer particles occurs. When said polymer particles are subjected to a temperature above coagulation temperature they coagulate to form a hydrophobic agglomerate in the hydrophilic layer so that at these parts the hydrophilic layer becomes insoluble in plain water or an aqueous liquid. Specific examples of hydrophobic polymer particles for use in connection with the present invention are e.g. polyethylene, polyvinyl chloride, polymethyl (meth)acrylate, polyethyl (meth)acrylate,

polyvinylidene chloride, polyacrylonitrile, polyvinyl carbazole etc. or copolymers thereof. Most preferably used is polyethylene.

Current US Original Classification (1):
430/302

Current US Cross Reference Classification (1):
101/456

Current US Cross Reference Classification (2):
101/457

CLAIMS:

8. A method according to claim 1 wherein said hydrophobic thermoplastic polymer particles capable of coalescing under the influence of heat are selected from the group consisting of polyethylene, polystyrene, polymethyl(meth)acrylate, polyvinylchloride, polyethyl(meth)acrylate, polyvinylidenechloride, polyacrylonitrile and polyvinylcarbazole.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 3. Document ID: US 6096481 A

L19: Entry 3 of 12

File: USPT

Aug 1, 2000

DOCUMENT-IDENTIFIER: US 6096481 A

TITLE: Method for making a lithographic printing plate involving on press development

US Patent No. (1):
6096481

Detailed Description Text (16):

Specific examples of hydrophobic polymer particles for use in connection with the present invention are e.g. polyethylene, polyvinyl chloride, polymethyl (meth)acrylate, polyethyl (meth)acrylate, polyvinylidene chloride, polyacrylonitrile, polyvinyl carbazole etc. or copolymers thereof. Most preferably used is polyethylene.

Current US Original Classification (1):
430/302

Current US Cross Reference Classification (1):
101/467

CLAIMS:

6. A method according to claim 1 wherein said hydrophobic thermoplastic polymer particles are selected from the group consisting of polyethylene, polystyrene, polymethyl(meth)acrylate, polyvinylchloride, polyethyl(meth)acrylate, polyvinylidenechloride, polyacrylonitrile and polyvinylcarbazole.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 4. Document ID: US 6080523 A

L19: Entry 4 of 12

File: USPT

Jun 27, 2000

DOCUMENT-IDENTIFIER: US 6080523 A

TITLE: Imaging element for producing a lithographic plate therewith

US Patent No. (1):
6080523Brief Summary Text (32):

Specific examples of hydrophobic polymer particles for use in connection with the present invention with a Tg above 80.degree. C. are e.g. polyvinyl chloride, polyvinylidene chloride, polyacrylonitrile, polyvinyl carbazole etc. or copolymers thereof. Most preferably used are polystyrene, polymethyl-(meth)acrylate or copolymers thereof.

Current US Cross Reference Classification (2):
430/302

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 5. Document ID: US 6071369 A

L19: Entry 5 of 12

File: USPT

Jun 6, 2000

DOCUMENT-IDENTIFIER: US 6071369 A

TITLE: Method for making an lithographic printing plate with improved ink-uptake

US Patent No. (1):
6071369Brief Summary Text (50):

Specific examples of hydrophobic polymer particles for use in connection with the present invention with a Tg above 80.degree. C. are preferably polyvinyl chloride, polyvinylidene chloride, polyacrylonitrile, polyvinyl carbazole etc., copolymers or mixtures thereof. Most preferably used are polystyrene, polymethyl-methacrylate or copolymers thereof.

Current US Cross Reference Classification (2):
101/456Current US Cross Reference Classification (3):
101/457Current US Cross Reference Classification (4):
101/458Current US Cross Reference Classification (5):
101/462Current US Cross Reference Classification (6):
101/463.1Current US Cross Reference Classification (7):
101/465Current US Cross Reference Classification (8):
101/466Current US Cross Reference Classification (9):
101/467

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 6. Document ID: US 6030750 A

L19: Entry 6 of 12

File: USPT

Feb 29, 2000

DOCUMENT-IDENTIFIER: US 6030750 A

TITLE: Method for making a lithographic printing plate involving on press development

US Patent No. (1):
6030750

Detailed Description Text (16):

Specific examples of hydrophobic polymer particles for use in connection with the present invention are e.g. polyethylene, polyvinyl chloride, polymethyl (meth)acrylate, polyethyl (meth)acrylate, polyvinylidene chloride, polyacrylonitrile, polyvinyl carbazole etc. or copolymers thereof. Most preferably used is polyethylene.

Current US Original Classification (1):
430/302

Current US Cross Reference Classification (1):
101/453

Current US Cross Reference Classification (2):
101/454

Current US Cross Reference Classification (3):
101/457

Current US Cross Reference Classification (4):
101/463.1

Current US Cross Reference Classification (5):
101/467

CLAIMS:

7. A method according to claim 1 wherein said hydrophobic thermoplastic polymer particles are selected from the group consisting of polyethylene, polystyrene, polymethyl(meth)acrylate, polyvinylchloride, polyethyl(meth)acrylate, polyvinylidenechloride, polyacrylonitrile and polyvinylcarbazole.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RWAC	Draw Desc	Image
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☐ 7. Document ID: US 6004727 A

L19: Entry 7 of 12

File: USPT

Dec 21, 1999

DOCUMENT-IDENTIFIER: US 6004727 A

** See image for Certificate of Correction **

TITLE: Method of making a lithographic printing plate

US Patent No. (1):
6004727

Brief Summary Text (42):

Specific examples of hydrophobic thermoplastic polymer particles are e.g. polyethylene, polyvinyl chloride, polymethyl (meth)acrylate, polyethyl (meth)acrylate, polyvinylidene chloride, polystyrene polyacrylonitrile, polyvinyl carbazole etc. or copolymers thereof. Most preferably used is polymethyl (meth)acrylate or polystyrene. The weight average molecular weight of the polymers may range from 5,000 to 1,000,000 g/mol. The hydrophobic particles may have a particle size from 0.01 .mu.m to 50 .mu.m, more preferably between 0.05 .mu.m and 10 .mu.m and most preferably between 0.05 .mu.m and 2 .mu.m.

Current US Original Classification (1):
430/302

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 8. Document ID: US 6001536 A

L19: Entry 8 of 12

File: USPT

Dec 14, 1999

DOCUMENT-IDENTIFIER: US 6001536 A

TITLE: Method for making a lithographic printing plate involving development by plain water

US Patent No. (1):
6001536

Detailed Description Text (16):

Specific examples of hydrophobic polymer particles for use in connection with the present invention are e.g. polystyrene, polyvinyl chloride, polymethyl methacrylate, polyvinylidene chloride, polyacrylonitrile, polyvinyl carbazole etc. or copolymers and/or mixtures thereof. Most preferably used is polymethyl methacrylate.

Current US Original Classification (1):
430/302

Current US Cross Reference Classification (1):
101/456

Current US Cross Reference Classification (2):
101/457

CLAIMS:

7. A method according to claim 1 wherein said hydrophobic thermoplastic polymer particles are selected from the group consisting of polystyrene, polyvinyl chloride, polymethyl methacrylate, polyvinylidene chloride, polyacrylonitrile, polyvinyl carbazole or copolymers and mixtures thereof.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 9. Document ID: US 5816162 A

L19: Entry 9 of 12

File: USPT

Oct 6, 1998

DOCUMENT-IDENTIFIER: US 5816162 A

TITLE: Method for making a lithographic printing plate by image-wise heating an imaging element using a thermal head

US Patent No. (1):5816162Brief Summary Text (48):

Specific examples of hydrophobic thermoplastic polymer particles for use in connection with the present invention are e.g. polyethylene, polyvinyl chloride, polymethyl (meth)acrylate, polyethyl (meth)acrylate, polyvinylidene chloride, polystyrene polyacrylonitrile, polyvinyl carbazole etc. or copolymers thereof. Most preferably used is polymethyl (meth)acrylate or polystyrene. The weight average molecular weight of the polymers may range from 5,000 to 1,000,000 g/mol.

Current US Original Classification (1):101/467Current US Cross Reference Classification (1):101/462

CLAIMS:

4. A method according to claim 3 wherein said hydrophobic hydrophobic thermoplastic polymer particles are selected from the group consisting of polyethylene, polystyrene, polymethyl(meth)acrylate, polyvinylchloride, polyethyl(meth)acrylate, polyvinylidenechloride, polyacrylonitrile and polyvinylcarbazole.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 10. Document ID: US 5639586 A

L19: Entry 10 of 12

File: USPT

Jun 17, 1997

DOCUMENT-IDENTIFIER: US 5639586 A

TITLE: Lithographic base and a lithographic printing plate

US Patent No. (1):5639586Brief Summary Text (45):

Specific examples of hydrophobic polymer particles for use in connection with the present invention are e.g. polyethylene, polyvinyl chloride, polymethyl(meth)acrylate, polyethyl (meth)acrylate, polyvinylidene chloride, polyacrylonitrile, polyvinyl carbazole etc. or copolymers thereof. Most preferably used is polyethylene.

Current US Cross Reference Classification (1):101/456Current US Cross Reference Classification (2):101/457

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 11. Document ID: US 5462833 A

L19: Entry 11 of 12

File: USPT

Oct 31, 1995

DOCUMENT-IDENTIFIER: US 5462833 A
TITLE: Lithographic base and a method for making a lithographic printing plate therewith

US Patent No. (1):
5462833

Brief Summary Text (38):
Specific examples of hydrophobic polymer particles for use in connection with the present invention are e.g. polyethylene, polyvinyl chloride, polymethyl(meth) acrylate, polyethyl (meth) acrylate, polyvinylidene chloride, polyacrylonitrile, polyvinyl carbazole etc. or copolymers thereof. Most preferably used is polyethylene.

Current US Cross Reference Classification (1):
101/456

Current US Cross Reference Classification (2):
101/457

Current US Cross Reference Classification (3):
101/462

Current US Cross Reference Classification (12):
430/302

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 12. Document ID: US 5445912 A

L19: Entry 12 of 12

File: USPT

Aug 29, 1995

DOCUMENT-IDENTIFIER: US 5445912 A
TITLE: Lithographic base and a method for making a lithographic printing plate therewith

US Patent No. (1):
5445912

Brief Summary Text (37):
Specific examples of hydrophobic polymer particles for use in connection with the present invention are e.g. polyethylene, polyvinyl chloride, polymethyl(meth) acrylate, polyethyl (meth) acrylate, polyvinylidene chloride, polyacrylonitrile, polyvinyl carbazole etc. or copolymers thereof. Most preferably used is polyethylene.

Current US Cross Reference Classification (1):
101/456

Current US Cross Reference Classification (2):
101/457

Current US Cross Reference Classification (3):
101/462

Current US Cross Reference Classification (13):
430/302